

WHAT IS CLAIMED IS:

1. A method of handing off a call from a WLAN switch on a wireless local area network (WLAN) to a wireless communication system comprising:
 - initiating a call from the WLAN switch to a subscriber device via the wireless communication system;
 - receiving the call from the wireless communication system;
 - switching the call from the wireless local area network to the connection to the wireless communication system.
2. The method of claim 1, further comprising:
 - sending a registration message to the WLAN switch.
3. The method of claim 2, further comprising:
 - receiving an invite message from the WLAN switch.
4. The method of claim 3 wherein the wireless communication system is a cellular system.
5. The method of claim 4 wherein the registration message is sent via the wireless local area network.
6. The method of claim 4 wherein the registration message is sent via the cellular system.
7. The method of claim 4, further comprising:
 - determine whether a handoff to the wireless communication is warranted;
8. The method of claim 7 wherein the handoff determination is made through monitoring a wireless local area network signal strength parameter.
9. The method of claim 8 wherein the wireless local area network signal strength parameter is an automatic gain control value.
10. The method of claim 8 wherein the wireless local area network signal strength parameter is receive signal strength indication.
11. The method of claim 7 wherein the handoff determination is made through monitoring a link quality indication parameter.
12. The method of claim 11 wherein the link quality indication parameter is packet error rate.

13. The method of claim 11 wherein the link quality indication parameter is a signal to noise ratio.

14. The method of claim 7 wherein the handoff determination is made through monitoring a link-operation parameter.

15. The method of claim 14 wherein the link-operation parameter is maximum allowable data rate.

16. The method of claim 14 wherein the link-operation parameter is current data transfer rate.

of handing off a call from a WLAN switch on a wireless local area network to a wireless communication system comprising:

17. A wireless subscriber device comprising:

a SIP processor to initiate a call from the WLAN switch to a subscriber device via the wireless communication system;

a cellular processor to receive the call from the wireless communication system;

a controller to switch the call from the wireless local area network to the connection to the wireless communication system.

18. The device of claim 17, wherein the SIP processor is also to send a registration message to the WLAN switch.

19. The device of claim 18, wherein the SIP processor is also to receive an invite message from the WLAN switch.

20. The device of claim 19 wherein the wireless communication system is a cellular system.

21. The device of claim 20 wherein the registration message is sent via the wireless local area network.

22. The device of claim 20 wherein the registration message is sent via the cellular system.

23. The device of claim 20, wherein the controller is to further determine whether a handoff to the wireless communication is warranted.

24. The device of claim 23 wherein the handoff determination is made through monitoring a wireless local area network signal strength parameter.

25. The device of claim 24 wherein the wireless local area network signal strength parameter is an automatic gain control value.

26. The device of claim 24 wherein the wireless local area network signal strength parameter is receive signal strength indication.

27. The device of claim 23 wherein the handoff determination is made through monitoring a link quality indication parameter.

28. The device of claim 27 wherein the link quality indication parameter is packet error rate.

29. The device of claim 27 wherein the link quality indication parameter is a signal to noise ratio.

30. The device of claim 23 wherein the handoff determination is made through monitoring a link-operation parameter.

31. The device of claim 30 wherein the link-operation parameter is maximum allowable data rate.

32. The device of claim 30 wherein the link-operation parameter is current data transfer rate.

33. A wireless subscriber device comprising:

means for initiating a call from the WLAN switch to a subscriber device via the wireless communication system;

means for receiving the call from the wireless communication system;

means for switching the call from the wireless local area network to the connection to the wireless communication system.

34. A computer readable medium encoded with data and instructions, the data and instructions causing an apparatus executing the instructions to:

initiate a call from the WLAN switch to a subscriber device via the wireless communication system;

receive the call from the wireless communication system;

switch the call from the wireless local area network to the connection to the wireless communication system.